AMIRHOSSEIN MOLAVI TABRIZI

ADDRESS: Department of Civil Engineering
Auburn Science and Engineering
ASEC 535; University of Akron
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EDUCATION:

- Dec. 2011 – Present
  PH.D. Student in Structural Engineering
  University of Akron
  Akron, OH., USA
  Research Supervisor: Dr. Ernie Pan

- Sep. 2006 – May 2009
  M.Sc. in Structural Engineering
  Amirkabir University of Technology (Tehran Polytechnic),
  Tehran, Iran
  Research Supervisor: Dr. Faramarz Khoshnudian
  Total GPA: 16.08/20
  THESIS: Effects of Near-Field Earthquakes on Base Isolated Buildings with Smart Systems.

- Sep. 2001- Jul. 2005
  B.Sc. in Civil Engineering
  Isfahan University of Technology
  Isfahan, Iran
  Total GPA: 15.27/20

OBJECTIVES AND MAJOR INTRESTS:

- Green's functions and applications
- Microelectromechanical systems (MEMS) and magnetoelectroelastic coupling
- Layered structures and composite laminates
- New Design Approaches in Structural Engineering such as Performance Based Design and Displacement Based Design.
- Control and Identification of Dynamical Systems.
- Non-linear Dynamics and Stability of Complex Systems.
- Structural Engineering; Reliability and Risk Assessment; Retrofit and Rehabilitation; Smart Materials and Systems; Seismic Design, Analysis, and Retrofit of Bridges.

HONORS AND AWARDS:

- Ranked 132th among more than 15,000 participants in the nationwide university entrance exam for M.Sc. degree, 2006.
- Ranked top 0.2 percent among more than 500,000 participants in the nationwide university entrance exam for B.Sc. degree, 2001.

PUBLICATIONS:

- A. Molavi Tabrizi and F. Khoshnudian, "Responses of an isolated Building with MR Dampers and Fuzzy Logic" Published in 6th International Conference on Seismology and Earthquake Engineering, Tehran, Iran, 2011

WORKING EXPERIENCE:

- **University of Akron** (Akron, OH., USA)
  Dec 2011-Present
  Graduate research assistant
  - Deriving time harmonic displacement and stress Green's function for multi layered anisotropic layered materials.
  - Deriving time harmonic displacement and stress Green's function for multi layered anisotropic piezoelectric and piezomagnetic materials.

- **Ista Mohasebe Pars Construction Company** (Tehran, Iran)
  Sep 2009-Dec 2011
  Director and Structure Engineer
  - Analyze and Complete Design of two 10 Story Non-regular Concrete Buildings Approximately 11000 m^2 (Dual System: Moment Resistant Frame and Concrete Shear Wall) –Bojnourd- Iran
  - Analyze and Complete Design of a 12 Story Non-regular Steel Building Approximately 8000 m^2 (Dual System: Moment Resistant Frame and Steel Shear Wall) –Tehran- Iran
  - Analyze and Complete Design of a 6 Story Non-regular Steel Building Approximately 6800 m^2 (System: Moment Resistant Frame) –Bandar abbas- Iran
  - Analyze and Complete Design of a Memorial of the War- Nine Concrete Curves 35 Meters Height and 80 Meters Span
  - Analyze and Complete Design of two 3 Story Regular Lightweight Steel Frame Buildings Approximately 1000 m^2 (System: LSF with Bracing) –Parand- Iran
  - Analyze and initial Design of one 10 story Non-regular Steel building approximately 8000 m^2 (Dual System: Moment Resistant Frame and Bracing) –Nairobi- Kenya
  - Analyze and Complete Design of 3 Story Non-regular moment frame Concrete Buildings Approximately 3000 m^2 –Gonbad- Iran
  - Analyze and initial Design of three 14 story Non-regular moment frame building approximately 29000 m^2 –Mahmoodabad- Iran

- **Azad University** (Saveh, Iran)
  Sep 2009-Sep 2010
  Lecturer
  Teach the following courses:
  - Design of Steel Structures (II): Fall 2009, Winter 2010, Summer 2010.
  - Design of Concrete Structures (II): Fall 2009.
  - Structural Analysis (II): Winter 2010.
  - Mechanic of Materials (II): Winter 2010.
  - Concrete Structures design Project: Winter 2010.

- **Karane Consulting Engineers - Bridge Design Consultants** (Tehran, Iran)
  Jun 2007-Sep 2009
  Structure Engineer
  - Analyze and Design of 214 Meters Span Bridge. Height of Piers 22 meters. Post tension Deck and Equal Cantilever Construction System. Talezang-Iran

- Analyze and Design of 80 Meters Span Bridge. Slab and Beam. Bandar Abbas-Iran
- Member of Designing Team of Isfahan City Center-Concrete Building Approximately 150000 m^2-(System: Moment Resistant Frame)

- **Bafte Behestan Consulting Engineers - Architectural and Structural Consultants** (Tehran, Iran)
  Jul 2005- Jun 2007
  Structure Engineer

  - Analyze and Complete Design of a 6 Story Non-regular Steel University Building Approximately 5000 m^2 (Dual System: Moment Resistant Frame and Bracing) –Yasuj-Iran
  - Analyze and Complete Design of a 5 Story Non-regular Steel University Building Approximately 4000 m^2 (Dual System: Moment Resistant Frame and Bracing) – Semnan- Iran

- **Housing Investment Co. – Holding Public Stock** (Karaj, Iran)
  Summer 2004
  Civil Engineer

  - Site Supervisor Engineer in 1000 Apartments Projects- Karaj-Iran.

RELATED ACTIVITES:

- Member of ASCE
- Member of Iranian Society of Civil Engineers as a Certified Civil Engineer for Both Designing and Supervising the Construction Process.
- Cooperating with **Prof. D. Mostofinejad** in publication of "Reinforced Concrete Structures – Volume 1 " book which is the first book in Iran based on Both ACI 318-02 and Iranian Concrete Code; 2003-2004; Isfahan University of Technology.

REFERENCES:

- **Dr. Ernie Pan;**
  Professor; Department of Civil and Environmental Engineering
  University of Akron, Akron, OH. 44325-3905; Tel: +1 330-972-6739
  Email: pan2@uakron.edu

- **Dr. Faramarz Khoshnudian;**
  Associated Professor; Department of Civil and Environmental Engineering
  Amirkabir University of Technology
  Hafez Ave., Tehran, Iran; Tel: +98 21 6454 3019
  Email: khoshnud@aut.ac.ir

- **Prof. D. Mostofinejad;**
  Professor; Department of Civil Engineering
  Isfahan University of Technology
  Isfahan, Iran; Tel: +98 311 391 3818
  Email: dmostofi@cc.iut.ac.ir

- **Mr. Amir Nasser Kalantari;**
  Harvard University, Graduate School of Design, M.A.U.D. 1991
  Bafte Behestan Consulting Engineers
  Tehran, Iran; Tel: +98 21 8889 8533
  Email: angk@baftebehestan.com